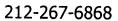
225 1 2 UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK 3 TRAVELERS CASUALTY AND SURETY COMPANY as 4 Administrator for RELIANCE INSURANCE 5 COMPANY, 6 Plaintiff, 7 -against-8 DORMITORY AUTHORITY-STATE OF NEW YORK, TDX CONSTRUCTION CORP. and KOHN PEDERSEN FOX 9 ASSOCIATES, P.C., 10 Defendants. 11 Case No. 08-CV-6915 (DLC) 12 (CAPTION CONTINUED) 13 14 December 17, 2009 15 10:21 a.m. 16 17 CONTINUED DEPOSITION of GEOFFREY 18 D. HICHBORN, taken by Defendants, pursuant 19 to Notice, held at the offices of HOLLAND 20 & KNIGHT LLP, 195 Broadway, New York, New York before Wayne Hock, a Notary Public of 21 22 the State of New York. 23 24 25

		T	
	302		304
1	G. D. Hichborn	1	G. D. Hichborn
2	A. Yes, I'm there.	2	that we're looking at now in appendix M?
3	Q. The first series of numbers, the	3	A. This is what I referred to as an
4	first 01 is what you refer to as your	4	incipient failure, one that has not
5	basis system?	5	resulted in delamination, one that has not
6	A. Yes.	6	resulted in the pulling away of the mass
7	<ul> <li>Q. When were those numbers applied</li> </ul>	7	of the terrazzo flooring from the concrete
8	to a particular sample, before the sample	8	substrate. This is where the concrete
9	was taken or at some other time?	9	itself has broken. But it's incipient and
10 11	A. It was my understanding it was	10	the floor is still performing fine.
12	contemporaneous with the taking of the	11	Q. The floor is still performing
13	sample.	12	fine as of what date are we talking about
14	Q. And that would be something that	13	now?
15	Mr. Spinelli did? A. Yes.	14	A. As of the time of sampling.
16	Q. Now, that particular sample,	15 16	When it was sampled, it was sampled
17	under the column separation it says no.	17	intact.
18	A. Correct.	18	Q. Why don't you go back to your
19	Q. What does that tell us?	19	sampling log and tell us when this particular floor sample that was
20	A. It means throughout the entire	20	performing fine was taken. I think that's
21	body of the sample that was taken there	21	appendix I.
22	was no delamination throughout any of the	22	A. The core was cut from the work
23	strata.	23	on October 27 of 2006.
24	Q. Reading further to the right	24	Q. And was performing adequately at
25	where it says, "delam location," it's	25	that time?
	303		305
1	G. D. Hichborn	1	G. D. Hichborn
2	blank.	2	A. Yes. The terrazzo was adhered
3	That's because there were none;	3	to the concrete substrate such that it had
4	there were no delaminations?	4	not delaminated.
5	A. That's a fair statement.	5	Q. Would you turn to Mr. Ray's page
6	Q. Would you turn to appendix M	6	forty-one, which is another photo.
7	which do you have that?	7	A. Certainly.
8	A. Yes.	8	Q. What does that show us?
9	Q. That's Mr. Ray's report?	9	A. It shows that the top surface of
10	A. Yes.	10	the concrete is distressed and again
11	Q. And would you turn to page	11	another incipient delamination within the
12	thirty-seven of Mr. Ray's report.	12	concrete mass.
13	A. Yes.	13	Q. Is the condition depicted in
14 15	Q. That's a magnified photo?	14	figure seventeen, the concrete crumbling
16	A. It is.	15	at the top, consistent with the surface of
17	Q. Is that the same core sample 01-01-03 that we just read about?	16 17	the concrete depicted in figure thirteen?
18	A. Yes.	18	A. I'm sorry, you're going to have
19	Q. And it says here, "bond failure	19	to ask another question because I really
20	at arrow."	20	don't understand what you're asking.
21	A. Yes.	21	Q. I'm trying to compare the photo in figure seventeen which says, "crumbling
22	Q. Okay.	22	at top of concrete" with the photo in
23	How do you distinguish between a	23	figure thirteen which is the example we've
24	finding of no lamination reported in	24	been tracking, 01-01-03. I'm asking
25	appendix J with the term "bond failure"	25	whether what you see in the condition of
C.13 (1975)	Total Talling College Talliance		micaici what you see in the condition of

21 (Pages 302 to 305)



State of New York, do hereby certify:

proceeding was held before me at the

and that the testimony was taken

transcript is a true record of the

aforesaid time and place;

testimony of said witness.

That the testimony in the within

That said witness was duly sworn

before the commencement of the testimony,

stenographically by me, then transcribed

under my supervision, and that the within

I further certify that I am not

action by blood or marriage, that I am not

interested directly or indirectly in the

matter in controversy, nor am I in the

related to any of the parties to this

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#### CERTIFICATION BY REPORTER

I, Wayne Hock, a Notary Public of the

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employ of any of the counsel.

set my hand this

2151

IN WITNESS WHEREOF, I have hereunto

day of

VERITEXT REPORTING COMPANY

212-267-6868

, 2009.

516-608-2400



### Cashin Spinelli & Ferretti, LLC

Surety Consultants and Construction Managers

New York • Connecticut • Pennsylvania • Illinois

April 12, 2009

JoAnne M. Bonacci, Esq. Dreifuss Bonacci & Parker, LLP 26 Columbia Turnpike North Entrance Florham Park, NJ 07932

Re:

Travelers Casualty and Surety Company/Trataros Construction, Inc. vs. Dormitory Authority of the State of New York, TDX Construction Corp.

and Kohn Pedersen Fox Associates, P.C. et. al.

Subject:

Review and Analysis of Report Prepared by Simpson, Gumpertz & Heger,

Inc., dated March 20, 2009

Dear Ms. Bonacci:

Cashin Spinelli & Ferretti, LLC ("CSF") is in receipt of the report referenced above and offers its response as follows:

### 1.0 Resumes of Key Personnel

1.1 The Opinions expressed in this report are those of Michael W. Spinelli, AIA. The following CSF personnel worked under the supervision of Mr. Spinelli. CSF is being compensated on an hourly basis as indicated per the individuals and categories below, for preparation of this report: 1

<sup>&</sup>lt;sup>1</sup> Resumes are attached in CSF No. 13

To the extent that the Conflow underlayment, or any underlayment on the project, was installed or applied incorrectly, the underlayment installer would bear responsibility for the delamination. Trataros did not self-perform this work.

#### Excess Water

SGH has alleged that excessive water was used to mix the underlayment, resulting in a soft and dusty underlayment surface. <sup>70</sup> SGH further noted that its opinion was based on its visual observations. SGH opined that these visual observations indicate that excessive water was used to mix the underlayment. <sup>71</sup>

To the extent that the underlayment was overwatered the entity that mixed and applied the Conflow underlayment would bear responsibility. The Conflow was mixed and applied by Bartec under a purchase order with Trataros. <sup>72</sup> Trataros did not self-perform this work.

### Spreading of the delaminations

SGH has alleged that the extent of debonded and lifting epoxy terrazzo is increasing over time due to foot and wheel traffic loads and exposure to expected and routing moisture. <sup>73</sup> SGH acknowledges that it did not survey the entire building. SGH's subsequent survey, which forms the basis of its opinion regarding the spread of the delaminations was even more limited. As a result, CSF does not believe that SGH has demonstrated increased delamination throughout the entire building.

The building has been traveled by hundreds of thousands, if not millions of students and/or faculty since September 2001. Charles Bartlett of DASNY has testified that he is unaware of an unsafe condition currently at the Project. <sup>74</sup> CUNY's representative has stated that he is not aware of any slip-and-falls occurring last year as a result of the

<sup>&</sup>lt;sup>70</sup> SGH Report, p. 24, 34

<sup>&</sup>lt;sup>71</sup> SGH Report, p.25

<sup>72</sup> T75

<sup>73</sup> SGH Report, p. 34

<sup>74</sup> Bartlett, Terrazzo, p. 463

- 8. TDX failed to consult with KPF concerning the issuance of GC2-028, nor did it properly evaluate the effects of GC2-028 on other work as required by its agreement with DASNY;
- 9. TDX directed and performed some of the grinding of the concrete and/or the installation of underlayment in certain areas of the building;
- 10. To the extent that the work performed by TDX contributed to the failures in the epoxy terrazzo flooring system, TDX and DASNY would be responsible;
- 11. The sound areas of epoxy terrazzo have been fully adhered for approximately eight years and CSF does not believe that these areas will suddenly delaminate; and
- 12. DASNY's estimated costs to remove and replace the epoxy terrazzo flooring system are excessive.

#### With respect to the actions of Bartec:

- To the extent that it is proven true that Bartec's improper surface preparation of the concrete prior to the placement of the underlayment contributed to the failure of the underlayment, and ultimately areas of the epoxy terrazzo flooring system, Bartec would be responsible;
- 2. To the extent that it is proven true that Bartec's improper surface preparation of the underlayment prior to the placement of additional layer(s) of underlayment contributed to the failure of the underlayment, and ultimately the failure of areas of the epoxy terrazzo flooring system; and
- To the extent that it is proven true that Bartec's improper over-watering of the
  underlayment contributed to the failure of the underlayment and ultimately the
  failure of the epoxy terrazzo flooring system, Bartec would be responsible.

### With respect to the actions of Crocetti:

 To the extent that it is proven true that Crocetti's improper surface preparation of the concrete contributed to the failure of the epoxy terrazzo flooring system, Crocetti would be responsible;

### 9.2 DASNY's Remedial Work Estimate

On June 30, 2003, Wayne Markowitz of DASNY advised CUNY and Baruch College officials that the cost of replacement of the terrazzo was \$30 - 35/sq. ft and that the cost of removal was \$10/sq. ft. Mr. Markowitz's remarks were recorded by TDX during a weekly meeting to review and update various issues. Mr. Markowitz's remarks were also less than two weeks after TDX's preparation of its June 17, 2008 summary of the detailed investigations and analyses of others with regard to the alleged failure(s) to the epoxy terrazzo flooring systems which was sent to Mr. Markowitz's attention. TDX confirmed that it distributed this report in the minutes of the June 30<sup>th</sup> meeting.

Based on the costs quoted by Mr. Markowitz, the removal and replacement of the entire epoxy terrazzo flooring system would be \$3.5 - 4.0 million. In its report, SGH does not explain why these alleged costs would have nearly quadrupled in less than six years. This would be especially relevant in today's depressed construction economy. In order the \$4 million estimate to reach DASNY's current costs of \$15.9 million, costs would have had to have escalated 26% per year over the last six years. The 26% escalation is already more than double the 12% escalation included in CUNY's estimate, <sup>96</sup> which Max Pizer of CUNY has previously stated probably won't occur in a plummeting economy. <sup>97</sup> DASNY's June 2003 estimate as to the cost to remove and replace the entire terrazzo flooring system is further evidence that SGH's estimate of remedial costs is overstated.

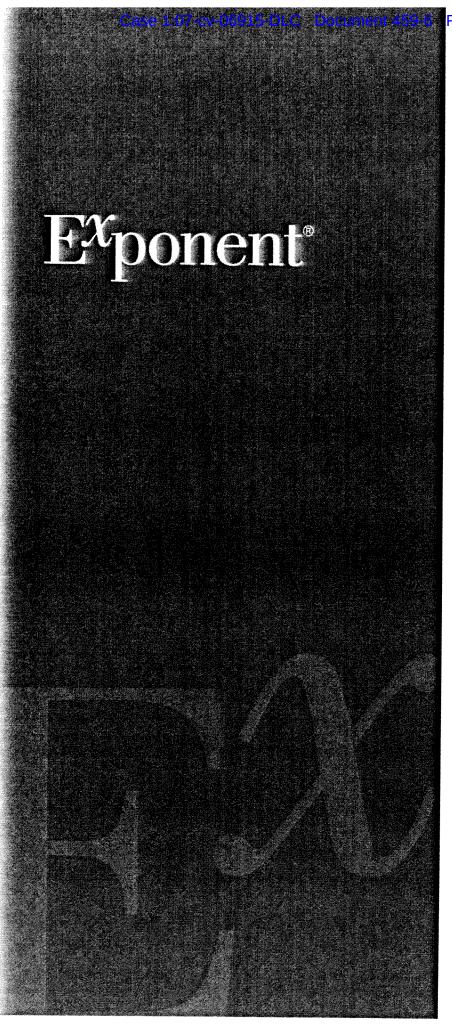
CSF reserves the right to amend this report.

On behalf of Cashin Spinelli & Ferretti, LLC

Michael W. Spinelli, AIA

<sup>96</sup> T56

<sup>97</sup> Pizer, Terrazzo, p. 273



Exponent Engineering P.C.

Investigation of Terrazzo Flooring Distress Baruch College Vertical Campus One Bernard Baruch Way New York, New York

- The contractor improperly installed the underlayment where thicknesses greater than 1 in. were necessary, resulting in inherent weak planes within the system.
- The contractor used excessive water to mix the underlayment, resulting in a soft and dusty underlayment surface."

Exponent's findings are in agreement with SGH's conclusions that improper cleaning and preparation of the concrete slab and underlayment surfaces and failure to remove curing compounds from the concrete slab contributed to reduced adhesion of the epoxy terrazzo system. Exponent's findings are also in agreement with SGH's conclusions that excessive water was used to mix the underlayment, as indicated by a soft, highly friable layer at the top of the underlayment and aggregate segregation within the underlayment. Exponent also found evidence of improper installation of underlayment where thicknesses greater than 1 inch were necessary.

Exponent agrees that the Conflow supplied to the Vertical Campus was a gypsum-based product, not a portland cement-based product as indicated in the product literature. Regardless of the composition of Conflow, review of correspondence from Crocetti and TEC and information from NTMA indicate that a self-leveling underlayment was not appropriate for use underneath the epoxy terrazzo flooring.

**SGH Conclusion:** "Typical curing shrinkage of the epoxy terrazzo system created stress that the weak and poorly prepared substrates could not support."

Shrinkage of epoxy resins during curing to an extent that cannot be supported by a properly prepared substrate is generally not expected. The NTMA indicates that the divider strips in a thin-set terrazzo floor system are aesthetic, unless placed over a break in the substrate (such as a concrete control joint).<sup>6</sup> The American Institute of Architects' Architectural Graphics Standards indicates that, in thin-set terrazzo systems, divider strips need to be placed only in areas where structural cracks can be anticipated.<sup>7</sup>

<sup>&</sup>lt;sup>7</sup> Ramsey, CG, Sleeper, HR. Architectural Graphic Standards, 10<sup>th</sup> Ed., JR Hoke, Jr., editor-in-chief, American Institute of Architects, John Wiley & Sons, Inc. New York. 2000. p 538.



<sup>6</sup> http://www.ntma.com/05\_flatness\_tolerance.cfm

### **Conclusions**

Exponent investigated the nature and extent of distress to the epoxy terrazzo flooring at the Baruch College Vertical Campus. Our conclusions are summarized as follows.

- Several factors contributed to the observed delamination of the epoxy
  terrazzo flooring system at the Vertical Campus, including improper
  preparation of the concrete floor slabs to receive leveling underlayment or
  epoxy terrazzo, improper installation of the leveling underlayment, and
  improper preparation of the leveling underlayment to receive the epoxy
  terrazzo system.
- The Conflow self-leveling underlayment installed under much of the epoxy terrazzo was gypsum-based, instead of portland cement-based as indicated in the product literature. Regardless of the composition of Conflow, the specification of a self-leveling underlayment was not recommended by TEC, the manufacturer of the Tuff-Lite epoxy terrazzo system installed at the Vertical Campus, by Crocetti, the epoxy terrazzo installer, or by the NTMA.
- The observed "alligatoring" of the terrazzo appears to be a condition related to the finished surface of the terrazzo and is likely unrelated to the condition of the underlayment.
- The nature and extent of delamination of the terrazzo flooring observed at the Vertical Campus does not require removal and replacement of all the terrazzo in the building. The delamination of terrazzo on levels B1 and B2 and the first and second floors is extensive and severe enough that all the terrazzo and underlayment on these floors should be removed and replaced. Elsewhere in the building, localized repairs of terrazzo will be sufficient. Exponent estimates removal and replacement of approximately 32,000 square feet of terrazzo is required.



CONSTRUCTION
TECHNOLOGY LABORATORIES
ENGINEERS & CONSTRUCTION
TECHNOLOGY CONSULTANTS

April 29, 2009

www.CTLCroup.com

Jeremy Platek, Esq. O'Conner Redd LLP 200 Mamaroneck Avenue White Plains, NY 10601

R&J Construction v. Bartec Industries, et al Your File No: D-2938 CTLGroup Project No. 283011

Dear Mr. Platek:

At your request, CTLGroup (CTL) reviewed project documents relating to debonding of epoxy terrazzo flooring at Baruch College located in New York, New York. The objectives of our work were to review background documents and provide opinions regarding the debonding of the epoxy terrazzo.

### **DOCUMENT REVIEW**

Provided documents were reviewed to obtain background information which included the following:

- Consultants reports from Testwell Craig dated March 5, 2003; March 25, 2003; and April 15, 2003.
- Consultant reports from Niagara Research Associates regarding March 13, 2003 site visit and letter to dated September 5, 2003 to Crocetti.
- Consultant report from National Terrazzo & Mosaic Association (NTMA) dated April 17, 2003.
- Consultant report from Simpson Gumpertz & Heger (SGH) dated March 20, 2009.
- Tech Data sheet for ConFlow dated June 8,1998, Approved by Architect on April 13, 2000.
- May 31, 2007 Technical Data Sheet for Conflow from Manufacturer's website.
- Technical Data sheet for FlexGuard Epoxy Membrane by TEC.
- Technical Data sheet for Tuff-Lite Epoxy Terrazzo by TEC.

Main Office 5400 Old Orchard Road Skokie, Illinois 80077-1030 Phone 847-985-7500 Fax 847-985-8541

Northeast Office 5565 Sterrett Place, Suite 312 Columbia, Maryland 21044-2885 Phone 410-997-0400 Fax 410-997-8480

Mr. Jeremy Platek CTLGroup Project No. 283011

Page 2 of 3 April 29, 2009

Deposition transcript for Bartec Industries employee, Craig Negus.

#### **OPINIONS**

Based on the scope of work performed and information provided, the following opinions are presented:

- 1. Debonding of the epoxy terrazzo system is widespread, occurring on all floor levels of the building, and is occurring at locations with and without underlayment. The failure pattern indicates that the debonding is not associated with a particular substrate, a particular underlayment, a particular installer, installation time period, or environment within the building at the time of underlayment/epoxy terrazzo application. New areas of debonding have recently (SGH 2009) been documented indicating that failure/debonding of the epoxy terrazzo floor system is continuing.
- Debonding of the epoxy terrazzo system is primarily related to poor surface preparation
  of the concrete and underlayment surfaces. The substrates were not cleaned or prepared properly to remove dirt or laitance and/or curing compounds resulting in poor
  bond.
- 3. Many of the cores indicated that epoxy terrazzo debonding was occurring at the crack isolation membrane/substrate interface with little to no material adhering to the membrane. This suggests that moisture is a contributing factor to the debonding since the crack isolation membrane is sensitive to moisture.
- 4. Where epoxy terrazzo debonding is occurring within the underlayment, the inherent weakness of cementitious/gypsum based underlayments and its sensitivity to water is a contributing factor to the debonding. Debonding within the underlayment layer does not by itself indicate improper volume of mix water, poor mixing, or poor installation. Review of evaluation reports shows little evidence to suggest that Conflow was installed incorrectly.
- 5. Conflow underlayment was submitted and approved by the project team as an appropriate material to level the concrete floor prior to installation of the epoxy terrazzo floor system. The manufacturer knew that Conflow was being used as underlayment for epoxy terrazzo at Baruch College. During evaluation of the epoxy terrazzo debonding after installation was completed it was determined that Conflow is a gypsum based material, contrary to product literature that states it is a poly-modified Portland cement based material. Gypsum-based underlayments degrade when wet. Reports by multiple parties (SGH, NTMA, Niagara) Indicates that cementitious/gypsum based underlayment may not be appropriate for use with epoxy terrazzo systems. The NTMA recommends epoxy underlayment be used to level the floor. Thus, the use of an improper underlayment material is likely a contributing factor to the debonding. Currently, the manufacturer's data sheet (dated 5-31-07) states that Conflow is "Not intended as a wearing surface or for use prior to installing high build epoxy or epoxy terrazzo systems".



www.com.Group.com

Mr. Jeremy Platek CTLGroup Project No. 283011

Page 3 of 3 April 29, 2009

6. Project documents indicate that firms other than Bartec installed Conflow, Mapei Novo/Plan, and an unknown cement based underlayment. The location of underlayment applied by each installer is not known. However, review of the evaluation reports and the failure pattern indicates that the debonding is not associated with a particular installer, installation method, underlayment type, installation time period, or environment within the building at the time of underlayment/epoxy terrazzo application.

We reserve the right to revise, amend, or supplement this report as more information becomes available. We appreciate the opportunity to provide specialized consulting services to O'Conner Redd LLP. If you have any questions or need additional assistance, please call.

Sincerely,

**CTLGROUP** 

Terry J. Willems Senior Materials Scientist

Structural Evaluation Group

TWillems@CTLGroup.com Phone: (847) 972-3234

> CTL GROUP Raistry Knowledge Delivering Reside.

www.GE Group.cum

1 1 2 UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK 3 CASE NO.: 08-CV-6915 (DLC) 4 TRAVELERS CASUALTY AND SURETY COMPANY as Administrator for RELIANCE INSURANCE 5 COMPANY, 6 7 Plaintiff, 8 -against-9 DORMITORY AUTHORITY-STATE OF NEW YORK, 10 TDX CONSTRUCTION CORP. and KOHN PEDERSON FOX ASSOCIATES, P.C., 11 12 Defendants. 13 (CAPTION CONTINUED) 14 15 August 12, 2008 10:00 a.m. 16 17 18 DEPOSITION of CRAIG NEGUS, held at the offices of Holland & Knight, 19 195 Broadway, New York, New York, before Eileen 20 21 Mulvenna, CSR/RMR, Certified Shorthand Reporter, Registered Merit Reporter and Notary Public of 22 23 the State of New York. 24 25

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2	The state of the confidence	2	condition of the floor on that visit actually,
3	, , , , , , , , , , , , , , , , , , , ,	3	strike that.
4	finished its work in January of 2002; is that	4	What did you observe about the
5	correct?	5	conditions of the terrazzo on that visit?
6	A. Yes.	6	A. The first time I saw it?
7	Q. At the time that you left the site,	7	Q. Uh-huh, yes.
8	was it your understanding that the work had been	8	A. One or two slabs of terrazzo, 2 by
9	completed to the satisfaction of Trataros?	9	
10	A. Yes.	10	
11	Q. After that, after Bartec left the	11	
12			
13		13	
14		14	1
15	•	15	mere were two areas. I believe it
16		16	that the ase host and are and moor.
17	(1.000.01.000.)		c surface as to
18	that is the carried state.	17	how large the size of an area each of these were?
19		18	110 parious mare a 100 c by 4 100 c
20		19	the terrazzo panels.
21	THE TENTE ICO.	20	Q. Was there just one panel on each of
	and a second arrange of any problem	21	those floors?
22	2000	22	A. Two. Two that I saw.
23	memorialized by a letter that I was written by	23	Q. Two panels in each of the different
24	Tommy Spinothoroukis informing me of a problem.	24	areas or two panels total?
25	Q. You said 14 months. That's	25	A. Two panels total.
<u> </u>			
	259	,	261
1	Craig Negus	1	261 Craig Negus
2	Craig Negus approximately, if I'm doing my math right, March	1	
l	Craig Negus approximately, if I'm doing my math right, March of '03?	1	Craig Negus
2	Craig Negus approximately, if I'm doing my math right, March	1 2	Craig Negus (Discussion off the record.) BY MS. WISHERT:
2	Craig Negus approximately, if I'm doing my math right, March of '03?	1 2 3	Craig Negus (Discussion off the record.) BY MS. WISHERT: Q. Do you recall having any discussions
2 3 4	Craig Negus approximately, if I'm doing my math right, March of '03? A. Right.	1 2 3 4	Craig Negus (Discussion off the record.) BY MS. WISHERT: Q. Do you recall having any discussions with Mr. Spinothoroukis or anybody else from
2 3 4 5	Craig Negus approximately, if I'm doing my math right, March of '03?  A. Right. Q. Do you recall more specifically what the contents of the letter said? A. That an area of terrazzo was was	1 2 3 4 5	Craig Negus (Discussion off the record.) BY MS. WISHERT: Q. Do you recall having any discussions
2 3 4 5 6	Craig Negus approximately, if I'm doing my math right, March of '03?  A. Right. Q. Do you recall more specifically what the contents of the letter said?	1 2 3 4 5 6	Craig Negus (Discussion off the record.) BY MS. WISHERT: Q. Do you recall having any discussions with Mr. Spinothoroukis or anybody else from Trataros at that time about the conditions you were observing?
2 3 4 5 6 7	Craig Negus approximately, if I'm doing my math right, March of '03?  A. Right. Q. Do you recall more specifically what the contents of the letter said? A. That an area of terrazzo was was	1 2 3 4 5 6 7	Craig Negus (Discussion off the record.) BY MS. WISHERT: Q. Do you recall having any discussions with Mr. Spinothoroukis or anybody else from Trataros at that time about the conditions you were observing? A. Not that specific evening.
2 3 4 5 6 7 8	Craig Negus approximately, if I'm doing my math right, March of '03?  A. Right. Q. Do you recall more specifically what the contents of the letter said? A. That an area of terrazzo was was delaminating and that I should come to the site	1 2 3 4 5 6 7 8	Craig Negus (Discussion off the record.) BY MS. WISHERT: Q. Do you recall having any discussions with Mr. Spinothoroukis or anybody else from Trataros at that time about the conditions you were observing? A. Not that specific evening. Q. At some point in the future, did you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Craig Negus approximately, if I'm doing my math right, March of '03?  A. Right. Q. Do you recall more specifically what the contents of the letter said?  A. That an area of terrazzo was was delaminating and that I should come to the site and observe the terrazzo and the condition of the underlayment. Q. And did you go to the site after receiving that letter? A. Yes. Q. Do you know when? A. No. Q. Can you approximate? A. Within a week. Q. Was anyone else there when you went to the site to observe the terrazzo and the underlayment? A. I can't recall specifically who. There were other people there.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Craig Negus (Discussion off the record.)  BY MS. WISHERT:  Q. Do you recall having any discussions with Mr. Spinothoroukis or anybody else from Trataros at that time about the conditions you were observing?  A. Not that specific evening. Q. At some point in the future, did you have conversations with someone  A. Yes. Q. When? A. I'd say about a month later. Q. Who did you speak to? A. Approximately. I spoke to him, Tommy  Spinothoroukis. Q. Can you describe what the contents of that discussion were? A. I asked him how big he thought the problem was, in other words, square footage. Q. What was his response?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Craig Negus approximately, if I'm doing my math right, March of '03?  A. Right. Q. Do you recall more specifically what the contents of the letter said?  A. That an area of terrazzo was was delaminating and that I should come to the site and observe the terrazzo and the condition of the underlayment. Q. And did you go to the site after receiving that letter? A. Yes. Q. Do you know when? A. No. Q. Can you approximate? A. Within a week. Q. Was anyone else there when you went to the site to observe the terrazzo and the underlayment? A. I can't recall specifically who. There were other people there. Q. Was Mr. Spinothoroukis there?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Craig Negus (Discussion off the record.)  BY MS. WISHERT:  Q. Do you recall having any discussions with Mr. Spinothoroukis or anybody else from Trataros at that time about the conditions you were observing?  A. Not that specific evening. Q. At some point in the future, did you have conversations with someone A. Yes. Q. When? A. I'd say about a month later. Q. Who did you speak to? A. Approximately. I spoke to him, Tommy  Spinothoroukis. Q. Can you describe what the contents of that discussion were? A. I asked him how big he thought the problem was, in other words, square footage. Q. What was his response? A. He said about 2,000 square feet.

262 264 **Craig Negus** 1 **Craig Negus** 2 2,000 square feet? 2 The labor foreman and a couple of 3 MR. PLATEK: Object to form. laborers working for TDX. I don't recall who 3 A. This is 2,000 square feet of problem 4 they were. terrazzo at this point. So it had very little to 5 At the second inspection, were there 6 do with me, in my opinion, at that time. 6 more than just the two panels coming up on the 7 Was there any discussion about what edges that you had observed the first time you to do -- even if it wasn't what Bartec would need 8 had been there? to do, just more generally about how they can fix 9 A. I had seen areas where they the 2,000 square feet that was coming up? 10 evidently had sawed with a power saw, circular 10 A. At that time, I had noticed that 11 saw, patches of the floor out, meaning the 12 they were already taking some actions. 12 floor -- the terrazzo and the underlayment. 13 Q. And what action were they taking at Were these small areas that had been 13 Q. 14 that point to --14 sawed out or --A. Screwing the panels down on the 15 15 Approximately 6 inches by a foot or corners. Other areas, they were trying to inject 16 16 a foot by a foot, 9 by 18. Random -- random 17 or pour in epoxy. 17 cuts, whatever they could get out. 18 Q. Just to clarify, when you say 18 Did you talk to Mr. Spinothoroukis 19 "they," who are you referring to? 19 about those sawed-out areas at all? 20 A. TDX and possibly Crocetti. I never 20 A. Yes. saw Crocetti there, but I know -- I believe they 21 21 What did he tell you about them? 22 were involved. 22 He said they were delaminated. 23 Q. Did you actually see TDX either 23 Did he tell you why they had sawed 24 screwing down the panels or pouring in epoxy, or 24 them out, if someone had suggested that as a way 25 did you -to deal with those delaminating areas? 263 265 1 Craig Negus 1 **Craig Negus** 2 No. I could see where they had done 2 I don't recall. 3 it. 3 Going back, when you were there for 4 When you say that you could see that the first inspection in response to the letter. the screwing work had been done, did you observe did you do a walk-through of all of the floors of this when you were originally there in response the building, or did Mr. Spinothoroukis take you 7 to Mr. Spinothoroukis' letter? specifically to the two areas where --No, no. Approximately -- I only saw 8 Not that night. Not that night. a couple of panels when I responded to his 9 Q. You did when you walked through a 10 request in his letter for me to come and give it 10 month later? 11 my attention. 11 A. Yes. 12 Right. О. 12 Just to be clear, did you observe 13 A. I think he used the word "urgent delaminating areas on more than just the first attention." 14 and second floors on that complete walk-through 15 Q. So a month later when you said you of the building? had spoke --16 16 A. I went back a third time 17 Approximately a month later, I --17 unannounced, approximately three or four days 18 MR. PLATEK: Wait until she later after that one-month meeting. That's when 19 finishes. I did a walk-through. 19 20 Okay. I'm sorry. 20 So does that mean you do not do a 21 When you spoke to him a month later, full walk-through at the one-month meeting site 21 22 was it on-site again? 22 inspection? 23 A. Yes. 23 24 Do you recall if anybody else was Q. 24 Were you alone on that third visit? 25 there at that second inspection? 25 Uh-huh.

266 268 1 **Craig Negus** 1 Craig Negus 2 MR. PLATEK: Yes? 2 So where did you get that 3 Yes. I'm sorry. 3 impression? And was it from TDX -- let me go 4 Did you make any notes about your 4 back. observations on any of the three visits that you 5 Was it from TDX or from Trataros made to the site? 6 that you --7 Nο. A. 7 It was from Spinothoroukis, who is 8 Have you been back to the site to -now working for TDX. At that point, he was 8 9 at all since that third visit that you took? 9 working for TDX. 10 Several times. 10 Did Mr. Spinothoroukis say something 11 Q. When was the next time after your 11 in particular to you or -- strike that. third visit to the site a few days after the 12 What gave you the impression from 13 one-month visit? him that he was blaming Bartec in part for the 13 14 Two or three weeks. 14 delamination problems that they were experiencing 15 So we don't have to go through every 15 at the Baruch project? single time if there's going to be a lot of them, 16 16 He had tapped out the floor, found 17 did you go back somewhat regularly to observe the 17 hollow spots in the terrazzo -- or on the 18 Baruch site after that point? terrazzo and said that some of it was caused by 18 19 I went back the first time 19 the delamination of the underlayment. unannounced after the -- the one-month 20 20 Did he express to you why he felt 21 approximate time to see how they were taking out 21 that the hollow spots were related to the the so-called delaminated areas. And when they 22 22 delamination of the underlayment versus 23 saw cut the small areas, they would take a chisel 23 delamination of the underlayment from the 24 and hammer to get it out and get out -- to get 24 concrete or some other problem with the terrazzo what out, they were getting the epoxy terrazzo 25 flooring? 267 269 1 **Craig Negus** 1 **Craig Negus** off and getting some underlayment. Some of it 2 MR. PLATEK: Object to form. 3 was bonded. 3 MR. FROESSEL: Objection to the At any point, did they ask Bartec to 4 form. 5 come back and redo any of this work? 5 Do you understand the question? 6 6 He made a statement that it -- in Did anyone from Trataros or TDX ever his opinion, it was the underlayment, too. 8 indicate to you that they felt that the You say "it was the underlayment, 8 9 underlayment was to blame for the delamination 9 too." Did he express that there were other --10 problem? 10 A. Terrazzo. 11 MR. FROESSEL: Objection to the 11 -- issues that he thought had caused 12 form. 12 the delamination problem other than the 13 MS. SMITH: Objection. 13 underlayment? MS. WISHERT: Let me clarify that. 14 14 A. Terrazzo. Did anyone ever indicate to you, 15 15 What did he say about the terrazzo? 16 16

between the time when you received the letter from Mr. Spinothoroukis and up to the one-month-later visit, that the delamination

19 problems that they were observing, they felt

Bartec's underlayment was in part to blame for 20 21 that?

22

17

18

A. Yes.

23 Ο. Do you recall a specific 24 conversation to that effect?

25 A. No. That was the bonding, too.

Did he give you any specific basis for why he understood that -- strike that.

Was it your understanding that he was just making a general conclusion that the floor was delaminating and, therefore, the terrazzo and the underlayment people must be at fault, or was there some sort of specific

information that caused him to believe that both 24

were potentially an issue related to the

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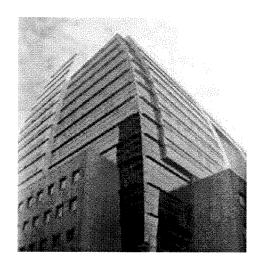
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Eileen Mulvenna, CSR/RMR



# Epoxy Terrazzo Flooring Investigation

Baruch College Vertical Campus The City University of New York New York, NY 20 March 2009

SGH Project 040095.02

and Building Enclosures

### 10. REPAIR COST ESTIMATE<sup>1</sup>

		Estimated				Ι	Cost
Work Item		Quantity <sup>2</sup>	Unit	Unit Price	Bare Cost	(witi	h GC and O/P) <sup>3</sup>
1. Demolition							
Remove existing floor system.		88,000	SF	14	\$ 1,232,000	\$	1,771,000
2. Surface Preparation							
Shot-blast and clean existing slabs.		88,000	SF	1	\$ 88,000	\$	126.500
Treat cracks and joints.		8,000	LF	55			632,500
3. Floor System Installation					Ē		
Underlayment. 4		66.000	SF	22	\$ 1,452,000	s	2.087,250
Divider strips.		60,000	LF	5	\$ 300,000		431,250
Cove bases.		14,000	LF	55			1,106,875
Epoxy terrazzo.		88,000	SF	40			5,060,000
4. Miscellaneous items							
Enclosures/partitions/HEPA filters, etc.		88.000	SF	5	\$ 440,000	\$	632,500
Repair to interior finishes.		14,000	LF	33			664,125
Subtotal						Š	12,512,000
				4			
Design and Construction Administration	5%					\$	625,600
Construction Contigency	15%					\$	1,876,800
Permits, Fees, Expeditor	5%					\$	625,600
Quality Control and Testing						\$	250,000
Total						\$	15,890,000
Total Cost per Square Foot						\$	181

#### Notes:

#### Other Notes:

- This cost estimate assumes a local staging and storage area will be available during construction.
- Unit prices are based on current material and labor costs and do not reflect the possible impact of inflation over the duration of construction.
- This cost estimate does not include possible costs associated with removal and reinstallation of special equipment located on the floor, such as ATMs, computer kiosks, benches, etc.
- · This cost estimate does not include fees associated with the investigation and litigation of the existing terrazzo floor.

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<sup>&</sup>lt;sup>1</sup> Work will have to be done in phases as use of building does not allow a complete shutdown. See 30 Jan 2006 remedial work package for the phasing we assumed based on the schedule and use of the spaces. This cost estimate reflects the scope of work and is not a detailed cost estimate. We have not determined exact quantities of materials needed or received any contractor quotes in developing this estimate. The numbers provided reflect the value of the scope of work based on our experience and industry guidelines (e.g., R.S. Means, etc.) and can be used for general budgeting purposes.

Quantity take-offs based on AutoCAD drawings provided by CUNY.
 Assumed General Conditions (GC).

<sup>&</sup>lt;sup>3</sup> Assumed General Conditions (GC). 25% Assumed Overhead and Profit (O/P). 15%

<sup>&</sup>lt;sup>4</sup> Assume average of 3/4 in. thick underlayment over 75% of floor area.



20 March 2009

Engineering of Structures and Building Enclosures

Stephen B. Shapiro, Esq. HOLLAND & KNIGHT LLP 2099 Pennsylvania Avenue NW Washington, DC 20006

Timothy B. Froessel, Esq. HOLLAND & KNIGHT LLP 195 Broadway New York, NY 10007

Project 040095.02 — Epoxy Terrazzo Flooring Investigation, Baruch College Vertical Campus, The City University of New York, New York, NY

Dear Mr. Shapiro and Mr. Froessel:

As you requested, we investigated the epoxy terrazzo flooring at the above-named building. Our investigation includes on-site testing and laboratory analysis as well as a review of consultant reports and project documents. This report contains a discussion of our findings to date, our conclusions, our recommendations for remedial work, and a construction cost estimate. We reserve the right to conduct a supplementary investigation and publish a supplemental report at a later date if necessary.

Sincerely yours,

Dennis J. Pirelle, Principal

Pinelle Construction Sciences, LLC

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Emily R. Hopps, Staff II - Building Technology

Simpson Gumpertz & Heger Inc.

Reviewed and Approved By,

Peter E. Nelson, Senior Principal Simpson Gumpertz & Heger Inc.

Encls.

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It is a violation of the law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter an item in any way.

369 1 2 UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF NEW YORK 3 TRAVELERS CASUALTY AND SURETY COMPANY as Administrator for RELIANCE INSURANCE 5 COMPANY, 6 Plaintiff, 7 -against-8 DORMITORY AUTHORITY-STATE OF NEW YORK, TDX CONSTRUCTION CORP. and KOHN PEDERSEN FOX ASSOCIATES, P.C., 9 10 Defendants. 11 Case No. 08-CV-6915 (DLC) 12 (CAPTION CONTINUED) 13 14 November 13, 2009 15 9:17 a.m. 16 17 CONTINUED DEPOSITION of DENNIS 18 J. PINELLE, taken by Plaintiff, pursuant 19 to Notice, held at the offices of HOLLAND & KNIGHT LLP, 195 Broadway, New York, New 20 21 York before Wayne Hock, a Notary Public of 22 the State of New York. 23 24 25

		T	
	386		388
1	D. J. Pinelle	1	D. J. Pinelle
2	with piling the epoxy terrazzo	2	damage.
3	estimate for this sheet, repair cost	3	MR. PLATEK: Could you read the
4	sheet estimate, page forty, and to	4	question back, please.
5	provide those notes, documents, or	5	(Whereupon the requested portion
6	anything along those lines that you're	6	was read back by the reporter)
7	able to locate to Mr. Froessel.	7	Q. Mr. Pinelle, under number four
8	Mr. Froessel, I'm requesting a	8	on your repair cost estimate, you have a
9	copy of that.	9	line item for enclosures, partitions, HEPA
10	MR. FROESSEL: We'll take it	10	filters, et cetera. And there's an
11	under advisement.	11	estimated quantity of eighty-eight
12	<ul> <li>Q. Mr. Pinelle, in going through</li> </ul>	12	thousand square feet with a unit price of
13	the documents that you reviewed and in	13	five.
14	speaking with the witnesses that you	14	Can you tell me how you came to
15	talked to in connection with the report	15	that line item.
16 17	that you issued, did you ask any of them	16	A. This is a I believe we talked
18	or note any documents of impact damages to	17	a little bit about this yesterday. This
19	the cove bases or the terrazzo as a result	18	is actually a composite of a number of, as
20	of the walk-through that would have	19	the heading says, miscellaneous items.
21	occurred, the final walk-through?	20	What we tried to do was try to condense
22	MR. FROESSEL: Objection to form. You can answer.	21	that down to a square foot cost and relate
23	A. We saw letters to that effect,	22	it back to the terrazzo. That's why you
24	yes. I don't know if they came from the	23	see the cost of \$5. It relates to things
25	actual final walk-through as a result of	25	like providing HEPA filters. You don't do
		25	that on a square foot cost, but we lumped
	387		389
1	D. J. Pinelle	1	D. J. Pinelle
2	that, but there were letters to the effect	2	it into this item here. The manufacturer
3	that there's lifting and debonding of the	3	we talked to, he seemed to have some
4	epoxy terrazzo in the building.	4	experience with that on some jobs and he
5	Q. I'm not speaking about lifting	5	says they usually do run it on a square
6	or debonding. I'm speaking about any form	6	foot basis like that just to give you a
7 8	of impact damages. For example,	7	cost estimate to give you an idea what
9	something's chipped on level three	8	that will cost. He was one of the sources
10	hypothetically and someone's walking	9	for that, helping us get to that number.
11	through the building and they would have	10	But we had things like moving kiosks,
12	noticed that and marked it down somewhere.  A. The only thing I saw that would	11	lights. Some of that I think is in this
13	A. The only thing I saw that would be along those lines was there were some	12	first line under number four.
14	I don't remember if there were memos or	13	Q. Is the breakout of that on the
15	actual letters but there's some documents	14 15	spreadsheet that I had asked you to
16	by I'm trying to remember if it was	16	produce yesterday?
17	both Bartec and Crocetti that, while they	17	A. That is, yes.
18	were working in the area, other trades are	18	Q. When you're speaking of the HEPA filters, you're talking about renting
19	were coming in and damaging the material.	19	them?
20	I don't know if the thirteenth floor was	20	A. That's ways and means of the
21	actually called out in one of them. They	21	contractor. They might own, they might
22	made some notations and that's the reason	22	rent them. I don't know.
23	they wrote these letters, that there was	23	Q. And normally, when you're
24	some damages from the other trades, what	24	estimating something like that, are there
25	you would call wear and tear or impact	25	a certain amount of filters that you would

6 (Pages 386 to 389)



#### CERTIFICATION BY REPORTER

I, Wayne Hock, a Notary Public of the

State of New York, do hereby certify:

That the testimony in the within proceeding was held before me at the aforesaid time and place;

That said witness was duly sworn
before the commencement of the testimony,
and that the testimony was taken
stenographically by me, then transcribed
under my supervision, and that the within
transcript is a true record of the
testimony of said witness.

1.8

I further certify that I am not related to any of the parties to this action by blood or marriage, that I am not interested directly or indirectly in the matter in controversy, nor am I in the employ of any of the counsel.

IN WITNESS WHEREOF, I have hereunto set my hand this  $16^{52}$  day of Novimbel

, 2009.

And



## TDX construction corporation

Baruch College Field Office 137 East 25th Street, 6th Floor, New York, NY 10010

#### ACCIDENT REPORT

TO:

John J. McCullough

FROM:

Frank Muhlbach

DATE:

October 3', 2001

RE:

Baruch College - Site "B"

Accident: September 29, 2001

Injured Party:

John Nolan

SS# 115-48-8893

29 Dawson Drive

Valley Stream, NY 11581

Employed By:

LK Comstock - Prime Contractor

Location of Accident:

55 Lexington Avenue

Facts of Accident:

It was reported to TDX that Mr. John Nolan of LK Comstock had an accident on Saturday,

September 29, 2001 in the B-2 level.

Mr. Nolan stated that he was walking across the floor at approximately 8:30 am, when he slipped on the wet floor leveling material used by Bartec.

He stated that there were two (2) wet areas on the entire floor, B-2 level, which were poured Friday evening, which caused him to fall and land on his

right hip, arm and wrist.

EXHIBIT

183

18108 WH

TDX safety asked the general contractor, Trataros, to place barricades and signs, when the area being poured and material is wet.

FM/kdl

Cc: N. D'Ambrosio

A. Neidle

F. Muhlbach

Accident Report John Nolan

Services and the service of the serv	1DR C-2 AC	CCIDENT	REPORT	contractor co	ode number	check if death resulted ( )		
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amployer's premises? (yes) not less that day (yes) on the	& JOHN NOL	AN	29 DAWS	\$ (516) 791 6847				
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# ELECTRICAL EMPLOYERS' SELF INSURANCE SAFETY PLAN 158-11 HARRY VAN ARSDALE JR. AVENUE FLUSHING, NY 11365

### FOREMAN'S 24 HOUR INCIDENT REPORT

THIS REPORT MUST BE FAXED TO EESISP AT (718) 591-0533 WITHIN 24 HOURS OF THE INCIDENT OR WITHIN 24 HOURS OF THE KNOWLEDGE THE INCIDENT HAS OCCURRED

EMPLOYER	L.K. Co	MSTOCK	<u> </u>			
INJURED EMPLOY	EE JOH	N NO	LAN	SS#	115-4	<u>8-8853</u>
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DATE OF INCIDEN LOCATION OF INC DESCRIPTION OF	IDENT BAG	ruch co	uege, 2	Tth ST. N.Y	.c. B	-2 Level
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FOREMAN'S JOB :	PHONE OR BEEPI 1 CONTRACTOR'	er# soffice p	HONE #) ( )-	212)779.	4485	
GENERAL FOREM	IAN PHIL	RAIN	IONE	SS#	122-36-	5625
GENERAL FOREM (DO NOT FURNISI						
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B. CONTA 2. REPORT THE IN 3. SUPERVISOR'S A. INVES B. TAKE I C. DEVEL	TURED EMPLOYED IN FOR MEDICAL CT MAGNACOM NCIDENT TO YOU INVESTIGATION TIGATE ALL SER PICTURES OF THE OP FURTHER NO Y DIRECTOR OR	L ASSISTAN P NURSE A' IR EMPLOY I: IOUS INIUR E ACCIDEN ITES ON TH	ICE. T (888) 33-NURS ER IMMEDIATI LIES. T SCENE, IF PR E INCIDENT TH	SE. ELY. ACTICAL.		THE EESISP

THIS FORM DOES NOT REPLACE THE ADR C-2 WHICH MUST BE COMPLETED IN FULL AND FILED WITH EESISP. IF NOT FILED WITHIN 24 HOURS - THE EMPLOYER IS SUBJECT TO PENALTY

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